ABSTRACT OF THE DISCLOSURE

A management OS having a higher level of safety than an active OS as a management target is prepared. In the management OS, an OS state detection unit detects the state of the active OS, and a data extraction unit reads out data in a storage device for the active OS. In this form, the two OSs operate in cooperation with each other, thus guaranteeing that all information necessary for failure restoration is sequentially left in a memory save device which the management OS has. This eliminates the difficulty in scheduling data storage and solves the problem that the data management system itself may be damaged by a computer virus and the like.